

STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL PERMIT APPLICATION

(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

	NOTE >			ing only, not inj	ection. Approva	ıl or denia	al for injection	on determine	ed after	Mechanica	I Integrity	Test re	esults
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	ADDRESS	ource Explora	ation & De	evelopment, LL	C	CITY			_	STATE	ZIP CI	ODE	
		th Street, Suit	te 500			Overla	nd Park			KS	6621	0	
		ION OF WEL	L AND LE	EASE		WELL NU			11.12	ELEVATION	LICROLIND	7	
	NAME OF LEAS Belton Unit					RW-76	-			1069'	GROUND		
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0-15	NAME DE E	xploration										CTION	8
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-	MO 780-0212 (6				OLOGICAL SURVEY						IL I LIXI	VIII 1 C	_

ONE (1) COPY WILL BE RETURNED Leech of the Utah (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative. DRILLER'S SIGNATURE DATE PROPOSED OPERATIONS DATA PROPOSED AVERAGE DAILY INJECTION, PRESSURF 300 PSIG, RATE .035 VOLUME 50 APPROVED AVERAGE DAILY INJECTION, BBL (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURE 300 PSIG. RATE .035 BPD/GPM, VOLUME 50 BBL/GAL PROPOSED MAXIMUM DAILY INJECTION. PRESSURF 300 PSIG, RATE .035 VOLUME 50 BBLAGAL APPROVED MAXIMUM DAILY INJECTION. (TO BE FILLED IN BY STATE GEOLOGIST) PRESSURE 500 PSIG RATE 1035 BPD/GPM. VOLUME 50 ESTIMATED FRACTURE PRESSURE GRADIENT OF INJECTION ZONE 0.43BBL/GAL PSI/FOOT DESCRIBE THE SOURCE OF THE INJECTION FLUID Squirrel sandstone produced water and rural water SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET) NOTE > DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTION FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDIUNG TOTAL DISSOLVED We have been using these injection fluids since the waterflood began with no issues. The formations respond to injection fluids. The injection fluids consist of recycled formation water and fresh water. GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, The upper, middle, and lower Squirrel Sandstone depth ranges from 500-600 feet with an average thickness of 90 feet. The upper Squirrel is generally 30 feet thick with 21% average porosity and 172 millidarcy's average permeability. The middle Squirrel is generally 20 feet thick with 22% average porosity and 1,000 millidarcy's average permeability. The lower Squirrel is generally 40 feet thick with 20.5% average porosity and 593 millidarcy's average permeability. GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, The confining layers of the Squirrel Sandstone consist of the the Fort Scott group above the sandstone and the Verdigris formation below the sandstone. The Fort Scott contains two prominent shales, the Blackwater Creek and the Excello, as well as the Blackjack Creek limestone that has a total thickness of 30-50 feet. The Verdigris formation consists of the the Ardmore limestone member and the Oakley shale with a total thickness of 20-40 feet. The zones are impermeable at less than 3% porosity. SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION THAT PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION. No corrective action needed.





STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM RECEIVED

FORM OGC-41

AUG 0 6 2012

INJECTION WELL LOCAT	ION PLAT	A	00 00 2012		
OWNER'S NAME		M- 0:1	0.0		
Kansas Resource Exploration & Development,	LLC (K.R.E.D)	IVIO OII	& Gas Coun	Cil	
Belton Unit - RW-76			County		
WELL LOCATION /	(GIVE FOOTAGE FROM	SECTION LINES)	Oass		
3478 ft. from ☐ North ☑	South section line	3198 ft. from 5	ZEast	n line	
WELL LOCATION				11110	
Sec. 16 Township 46 North Range 33	☐ East ☑ We	st LONGITUDE			
N38° 48' 42.713" /		W94° 34' 41.89	14" V		
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		13617	on unit		
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REMARKS		V I	<u> </u>		
Section 16 is an irregular section and larger tha	n one square mile.	3478			
Plat Map Scale - 1 Square = 682.25 feet					
/ Square - 002.23 leet					
		This is to continue to			
INSTRUCTIONS			have executed a sun lls in accordance with		
On the above plat, show distance of the propos			prrectly shown on the		
two nearest section lines, the nearest lease line nearest well on the same lease completed in or					
same reservoir. Do not confuse survey lines w	ith lease lines.				
See rule 10 CSR 50-2.030 for survey requirements be marked.	ents. Lease lines				
REGISTERED LAND SURVEY			NUMBER		



Missouri Department of Natural Resources

Geographic Information Systems





Check Location

Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).

Submit

Universal Transverse Mercator[Zone 15 North]

Easting

362966.95729445404 meters

Northing

4297082.468296827 n

meters

Decimal Degrees

Latitude

38.8118647222222

Longitude

-94.57830388888888

Degrees, Minutes and Seconds

Latitude Degrees

38

Latitude Minutes

48

Latitude Seconds

42.713

Longitude Degrees

-94

Longitude Minutes

34

Longitude Seconds

41.894

Metadata

- · Interstate Highways
- US Highways
- State Highways
- · Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- · Major Rivers
- Rivers and Streams
- Missouri River
- Mississippi River
- Municipal

UTM Zone 15N [Easting, Northing]

Decimal Degrees [Lat, Lon]

Deg, Min, Sec [Lat, Lon]

County Name
County FIPS Code

Legal Description

Municipality House District

Senate District Congressional District

MoDNR Region

USGS 1:24,000 Quadrangle

8 Digit Watershed 10 Digit Watershed

12 Digit Watershed

Special Well Drilling Area Ecological Drainage Unit

Level III Ecoregion
Query Time

[362966.9, 4297082.4] meters

[38.811864°, -94.578304°] [38° 48' 42.7", -94° 34' 41.8"]

Cass

037

Section 16 T46N R33W

NO VALUE

123 31

5

Kansas City Regional Office

Belton [38094-G5]

10300101 [Lower Missouri-Crooked]

1030010101 [Blue River]

103001010104 [Camp Branch-Blue River]

Area 2

Central Plains/Blackwater/Lamine

Central Irregular Plains

6.015 s

Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

Well D: #005,390

Elev. 1069

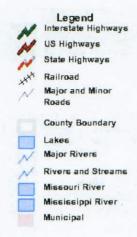
P. : 279' elev. Pc-M: 345'

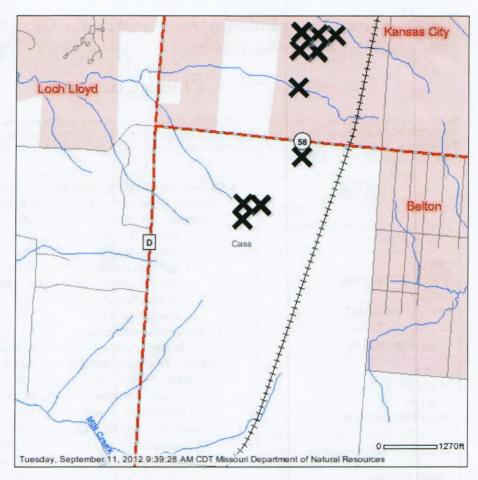
Well 1D #026255

P.: 535'TD

1069-535-345

=>-189' elev. IP





View Scale 1:24,000

DISCLAIMER: Although this map has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.



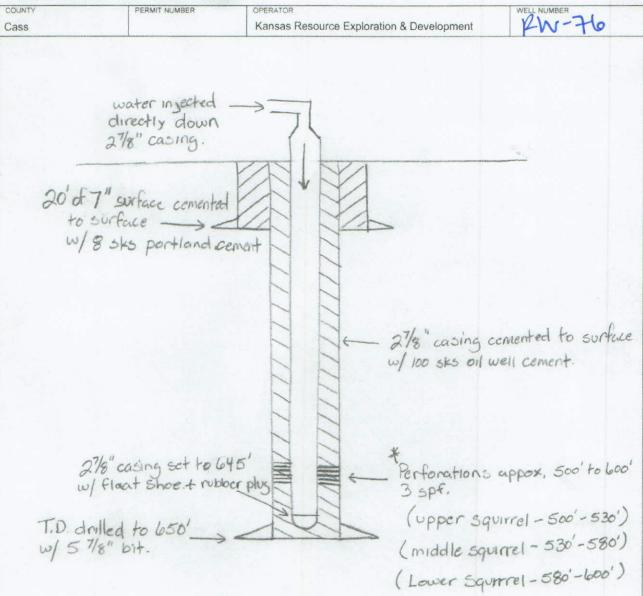
P.O. Box 176, Jefferson City, MO 65102 800-361-4827 / 573-751-3443 E-mail: contact@dnr.mo.gov



STATE OF MISSOURI MISSOURI DEPARTMENT OF NATURAL RESOURCES GEOLOGICAL SURVEY PROGRAM

INJECTION WELL SCHEMATIC

OGC-11



INSTRUCTIONS ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCUDING THE FOLLOWING: CONFIGURATION OF WELLHEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET.

The surface casing is 7" in diameter and is new, limited service grade pipe. The 7" is drifted and tested to 7,000 lbs. and weighs at least 17 lbs. per foot. The surface casing will be set to a minimum depth of 20 feet and extend 6 inches above the surface. Approximately 8 sacks of Portland cement will be circulated to surface and will secure the well and ensure the contents of the well bore are sealed off from sources of drinking water. The production casing used is 2 7/8" EUE upset, drifted and tested to 7,000 lbs. No tubing will be ran in the injection wells, the injection fluid will be injected directly down the 2 7/8" casing. The total depth of the well will be approximately 650 feet drilled with a 5 5/8" bit. A 2 7/8" flapper type float shoe will be set at the base of the 2 7/8" casing pipe (645 feet) with centralizers installed to center the casing inside the well bore for better cement bonding. The 2 7/8" casing will be cemented from 650 feet to surface using a 2 7/8" rubber plug for displacing the cement. Approximately 100 sacks of high-grade Oil Well cement will be used to cement all wells. This cement will ensure that no contents of the pipe will leave the well bore. The top of the 2 7/8" casing will extend approximately one foot above ground level. After the cement has cured and effectively bonded to the 2 7/8" casing, perforations will be made in the Squirrel Sandstone formation from approximately 500-600 feet, depending on where the oil sand is present at this particular location. Wells will be shot with 3 perforations per foot where the squirrel sandstone oil reservoir is present and capable of water injection. No water sources are present at this depth and will not be affected by these perforations or the injection. The relevant sources of drinking water are located less than 20 feet below surface. The 7" surface pipe and durable Portland cement ensures these water sources will remain free from contamination from drilling and injection activity. Other sources of potential usable water may be present, however not always potable, in the Pennsylvanian and Mississippian formations located approximately 150 feet or deeper below the base of the Squirrel Sandstone.

The lithology of all formations penetrated by the wellbore are as follows:

<u>Formation</u>	Total Depth (feet)
Soil	0-2
Clay	2-6
Lime	6 – 28
Shale	28 – 49
Lime	49 – 64
Shale	64 – 69
Red Bed	69 – 78
Shale	78 – 82

Lime	82 – 87	
Shale	87 – 105	
Gray Sand	105 – 124	
Shale	124 – 128	
Lime	128 – 130	
Shale	130 – 147	
Lime	147 – 177	
Shale (Slate 183 – 184)	177 – 186	
Lime	186 – 204	
Shale (Slate 207 – 208)	204 – 209	
Lime	209 – 211	
Shale	211 – 214	
Lime "Hertha"	214 – 220	Top Pawnee Limestone
Shale	220 – 259	
Lime	259 – 260	*
Gray Sand "Knobtown"	260 – 262	
Shale	262 – 324	
Gray Sand	324 – 329	
Shale	329 – 358	
Gray Sand	358 – 362	Base Pawnee Limestone
Shale	362 – 399	Top Labette Shale
Lime	399 – 401	
Shale	401 – 404	
Lime	404 – 406	
Shale (Slate 411 – 412)	406 – 417	
Lime	417 – 424	
Shale	424 – 427	
Gray Sand	427 – 431	Base Labette Shale

Shale	431 – 443	Top Fort Scott
Lime	443 – 448	· BlackJack Creek Limestone
Shale (Slate 452 – 453)	448 – 469	Summit Coal
Gray Sand	469 – 471	Base Fort Scott
Sdy. Shale	471 – 501	
Very laminated Sand	501 – 502	Top - Squirrel Sandstone
Sandy Lime	502 - 503	op squire salidstone
Slightly lamin. Sand	503 – 504	
Sandy Lime	504 – 505	
Solid Sand	505 – 506.5	
Shale	506.5 – 507	
Slightly lamin. Sand	507 – 507.5	
Sandy Shale	507.5 – 509.5	
Solid Sand	509.5 - 510.5	
Sandy Lime	510.5 - 511.5	
Solid Sand	511.5 - 515.5	
Sandy Lime	515.5 - 518	
Solid Sand	518 - 520	
Sandy Lime	520 - 521	
Solid Sand	521 – 525	
Sandy Lime	525 – 526	
Laminated Sand	526 – 527	
Sandy Shale	527 – 528.5	
Sandy Lime	528.5 – 530	
Solid Sand	530 – 533	
Sandy Lime	533 – 534	
Sandy Shale	534 – 535	
Slightly laminated Sand	535 – 536.5	

Sandy Lime	536.5 - 538	
Solid Sand	538 – 539	
Lime and Shells	539 – 541	
Sand lamin. w/ Sandy Lime	541 – 542	
Lime and Shells	542 - 543	
Solid Sand	543 – 544.5	
Sandy Lime and Shells	544.5 - 547.5	
Sand and Shells	547.5 – 548.5	
Lime and Shells	548.5 – 552	
Solid Sand	552 – 553	
Lime and Shells	553 – 555.5	
Sand and Shells	555.5 – 559.5	
Lime and Shells	559.5 – 563.5	
Solid Sand	563.5 - 582.5	
Slightly laminated	582.5 - 583.5	
Shale and Shells	583.5 - 587.5	
Solid Sand	587.5 – 590.5	
Sand and Shells	590.5 - 591.5	
Solid Sand	591.5 – 593	
Lime	593 – 593.5	
Very laminated Sand	593.5 – 596	Base – Squirrel Sandstone
Shale (Slate 610 – 611)	596 – 616	Top – Verdigris
Lime	616 – 617	Ardmore Limestone
Shale (Slate 621 – 622)	617 – 650	Oakley Shale

Re: Closure Pressure

Attached is a reproduction from "Production Operations, Vol. 2" by Allen and Roberts describing the fracturing pressures in a reservoir.

The fracture propagation pressure is approximately the same as the closure pressure, although slightly higher. This difference is less significant in low pressure reservoirs such as the ones in the Cherokee Basin, consequently, they are considered to be the same. The fracture propagation pressure is the same as the instantaneous shut-in pressure (ISIP) experienced upon cessation of a hydraulic fracture treatment. The ISIP from a fracture procedure is the surface pressure measurement. Bottom-hole ISIP must be calculated by adding the surface ISIP and the product of the depth to mid-perforations (feet) and the pressure gradient of the fluid in the wellbore (psi/foot). For fresh water the fluid gradient is 0.434 psi/foot. Since the fluid in fracture operations is more dense than fresh water most engineers estimate the bottom-hole ISIP with a higher gradient. The state of Oklahoma uses a gradient of 0.50 psi/foot.

Utilizing ISIP's experienced at Belton, and a fresh water gradient of 0.434, the calculated bottom-hole ISIPs are:

WELL	DEPTH TO MID-PERF	ISIP (Surface)	ICID (D. C.)
R32	626		ISIP (Perfs)
R32		400	672
	585	350	604
R31	600	400	
R31	552		660
R47		350	640
	620	325	594
AD20	536	400	
AD20	582.5		633
AD9-2		400	653
	610	400	665
AD9-2	507	400	
AD16-2	544		620
	5.11	400	636

The fracture propagation pressure is the pressure in which the aperture of the existing fractures can begin to be opened. An increase in injection rate is noted at this point on injection step-rate tests. At injection pressures at, or slightly above, the ISIP, the fractures in the immediate vicinity of the wellbore (inches) may be affected but not into the reservoir significantly. In actual injection operations of a waterflood at ISIP, fractures wouldn't be created beyond the region adjacent to the wellbore because of; 1) fluid leak-off into the formation, 2) the injection of a low viscosity fluid, and 3) the extremely low injection rates - far less than what is necessary to create a fracture.

minimum stress at the borehole, and must also overcome the tensile strength of the rock. This can be expressed as follows:

$$(P_i)_{\nu} = 3 \,\tilde{\sigma}_{h_2} - \tilde{\sigma}_{h_1} + S_h + P \tag{5}$$

where:

(P_i), = borehole pressure required to initiate vertical fracture

 $\tilde{\sigma}_{s_i} = \text{maximum principal horizontal matrix stress}$

 $\tilde{\sigma}_{k_2} = \min_{i} \min_{j} \min_{$

 S_k = horizontal tensile strength of rock

P = formation pore pressure

Penetrating Fluid Reduces Breakdown Pressure— A penetrating fluid increases the area over which pressurized fluid contacts the formation and can reduce the pressure necessary to initiate fracturing.

Laboratory and theoretical work by Fairhurst and Haimson²¹ provides a basis for estimation of the magnitude of reduction in openhole. Generally reduction may be on the order of 25 to 40% in openhole.

Perforation Density and Orientation—Recent laboratory work in cased hole shows that breakdown or frac initiation pressure is affected by the number and arrangement of perforations.²⁵

The existence of casing and the arrangement of perforations have little effect on created fracture orientation, but breakdown pressure is reduced by increased number of perforations. The practice of perforating with all shots in a vertical line on one side of the casing, Figure 8-6 significantly increases

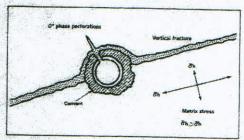


FIG. 8-6—Orientation of perforation vs. least horizontal matrix stress. Condition resulting in highest breakdown pressure:

breakdown pressure if the perforations happen to be oriented 90° to the azimuth of the vertical fracture plane. Orientation of perforations does not affect azimuth of the vertical fracture however.

Fracture Propagation

Once the fracture has been created and invaded by pressured fluid, the stress concentration near the wellbore is reduced, and the hydraulic pressure required to extend the fracture must merely overcome the component of the undisturbed stress field normal to the plane of the fracture.

Measuring Propagation Pressure and Frac Gradient—The fracture propagation pressure (and frac gradient) can be obtained during the fracing operation by recording the wellhead pressure immediately after the pumps are shut down following injection into the fracture (Figure 8-7). Since the frac gradient is increased by increased pore pressure, this measurement should be made before the pore pressure is significantly raised by the injected frac fluid.

Wellhead instantaneous shut-in pressure, corrected to the hole bottom by adding the hydrostatic pressure of the wellbore fluid column, is the fracture propagation pressure. Fracture gradient is the fracture propagation pressure divided by the formation depth.

Measuring Rock Matrix Stress—The minimum horizontal rock matrix stress is then:

 $\hat{\sigma}_{k_1}$ = propagation pressure - pore pressure

This stress is of particular interest because it is the stress which propping agents must withstand in order to hold the fracture open. In actual practice pore pressure can be equated to static reservoir pressure provided fracture propagation pressure is measured before significant frac fluid is injected to raise the pore pressure level near the wellbore.

It should be noted that proppant in the critical area near the wellbore is subjected to more stress than that further away due to lower pore pressure near the wellbore in the producing process, Figure 8-8. This effect may be significant at high drawdown pressures.

Fracture Orientation

Fracture Propagates Perpendicular to Smallest Stress-Rocks fracture in a plane perpendicular to Belton Unit, Cass County, Missouri

Re: Injection Volumes

Injection volumes are determined by using analogy from previous squirrel sandstone water floods that contain similar reservoir characteristics. In the case of the Belton Unit we plan to inject 1 barrel of water for every 1 net foot of oil bearing sandstone. (assuming this rate does not exceed the maximum approved injection pressure) Depending on the duration and impact of the surrounding wells some injection wells may ultimately inject 3 barrels of water for every 1 net foot of oil bearing sandstone.

Due to the permeability variance of the reservoir we typically will not exceed 15' of perforations per injection well.

Example;

Year 1

15' perforations x 1 bbl/ft = 15 BPD injection rate

Year 2

15' perforations x 2 bbls/ft = 30 BPD injection rate

Year 3

15' perforations x 3 bbls/ft = 45 BPD injection rate

We typically do not exceed 3 bbls/ft injection rate, which is why we are requesting only 50 BPD rate.

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	1 1 -	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE	CONSTRUCTION
Belton Unit	R-1	569 FROM (M)(S) SEC LINE 2412 FROM (E) (M) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D.	619'	0	04/08/1999	04/13/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-2	R-2 16 T 46 NB 33W	K.R.E.D	600'	0	06/04/1999	06/10/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-3	242 FROM (NS) SEC LINE 242 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	665'	0	02/29/2000	03/02/0200	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-4	2012 FROM (E) SEC LINE 2013 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	680'	0	03/02/2000	03/07/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-5	168 FROM(N)S) SEC LINE 240 6+ROM (E) (S) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	639'	0	04/23/2000	04/25/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-6	171 FROM (N)(S) SEC LINE 2890 FROM (E)(N) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	608'	0	04/27/2000	04/28/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-7	571 FROM()(S) SEC LINE 2(b) FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	646'	0	05/01/2000	05/02/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-8	103 FROM (1)(8) SEC LINE 103 FROM (E)(8) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	655'	0	05/05/2000	05/08/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	R-9	1008 FROM(N)(S) SEC LINE 2418 FROM (E)(20) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	651'	0	05/03/2000	05/05/2000	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump

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completion of information, detailing the cement, casing, and subsurface casing information.

	Retton Init	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	LEASE WELL LOCATIO
;	R-18	R-17	R-16	R-15	R-14	R-13	R-12	R-11	R-10	WELL NO.
SEC. 16 T. 46 N.R. 33W	70 70 11	SEC. 16 T. 46 N.R. 33W	000	573 FROM (1)(S) SEC LINE 573.55 FROM (E) (1)(S)SEC LINE SEC. 16 T. 46 N.R. 33W	174 FROM (WS) SEC LINE (333) FROM (E) (M) SEC LINE (SEC. 16 T. 46 N.R. 33W	943 FROM (E) SEC LINE SEC. 16 T 46 N.R. 33W	SEC. 16 T. 46 N.R. 33W	567 FROM (N)(S) SEC LINE (N) SEC 16 T. 46 N.R. 33W	1005 FROM(W)(S) SEC LINE 104 SEC LINE 1.46 N.R. 33W	LOCATION
	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D.	OWNER
	914.5'	686'	652.5'	621'	637'	620'	642'	626'	627'	DEPTH
	0	0	0	0	0	0	0	0	0	TYPE
	01/07/2004	01/29/2004	10/13/2003	12/15/2000	09/17/2001	05/22/2000	05/16/2000	05/10/2000	05/15/2000	SPUDDED
	01/09/2004	01/30/2004	10/15/2003	12/20/2000	09/19/2001	05/24/2000	05/18/2000	05/12/2000	05/16/2000	COMPLETED
	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

795 FROM (N)S) SEC LINE RI-2 FROM (E) SEC LINE	E K.R.E.D		627'	627'	627'	627'
368 FROM (S) SEC LINE RI-1 264 FROM (E) (6) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	623'		2Chris	71 ugged 07/26/2000	71 ugsed 07/26/2000 08/31/2000
3.20 FROM (N) SEC LINE R-25 20-15 FROM (B) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	660'		0	0	· U V/R
23.20 FROM (10) SEC LINE R-24 2415 FROM (E) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	658'		0	O 01/25/2008	
	K.R.E.D	660'		0	0	· U V/K
R-22 1405 FROM (N) SEC LINE R-22 1405 FROM (E) W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	660'		0	O 12/04/2008	
7160 FROM (N/S) SEC LINE R-21 SEC. 16 T. 46 N.R. 33W	K.R.E.D	635'		0	O 01/14/2008	
ROM (N)(S) ROM (E)(W)	K.R.E.D	661'		0	O 01/18/2008	
9	K.R.E.D.	621.5'		0	O 02/12/2004	
WELL LOCATION NO.	OWNER	DEPTH		TYPE	S	TYPE SPUDDED COMPLETED

INSTRUCTIONS

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						SEC. 16 T. 46 N.R. 33W	
4 1/2" casing cemented to surface	01/15/2004	01/13/2004	_	647.5'	K.R.E.D	ROM (E(V)	Belton Unit F
4 1/2" casing cemented to surface	02/13/2004	02/12/2004	-	641.5	K.R.E.D	RW-8 SEC. 16 T.46 N.R. 33W	Belton Unit R
Flugged 613+113-54mere	02/11/2004	02/10/2004	Plugged	638'	K.R.E.D	374 FROM()(S) SEC LINE RW-7 5115 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	Belton Unit R
Squeezed	U	U	Plugged	571'	K.R.E.D	110 FROM (N) (S) SEC LINE C-18 FROM (E) SEC LINE SEC. 16 1.46 N.R. 33W	Belton Unit C
	04/14/2001	04/16/2001	K	891'	K.R.E.D	843 FROM (S) SEC LINE WSW-13537 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	Belton Unit W
7 Mg 5-ed 10/27-112- Spuelred Plug 5-ed 10/27-112- Spuelred	C	<	Physica	644'	K.R.E.D	RI-6 218 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	Belton Unit F
4 1/2" casing cemented to surface	2	U	-	637'	K.R.E.D		Belton Unit F
4 1/2" casing cemented to surface	08/29/2000	08/25/2000	-	641'	K.R.E.D	R1-4 220 FROM (D)(S) SEC LINE R1-4 260 FROM (E)(0) SEC LINE SEC. 16 T. 46 N.R. 33W	Belton Unit R
4 1/2" casing cemented to surface	ح	C	-	635'	K.R.E.D.	RI-3 26-16 T. 46 N.R. 33W	Belton Unit R
CONSTRUCTION	COMPLETED	DATE	TYPE	DEPTH	OWNER	WELL LOCATION	LEASE

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	C					SEC. 9 T. 46 N.R. 33W	AU-3	Belton Unit	
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	=	08/31/1987	0	637'	KRED	ATA FROM (N(S)		-	
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	12/10/2007	12/06/2007	0	657'	K.R.E.D	220 FRO 2000 FRO	AD-2	Belton Unit	
4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	01/04/2008	12/03/2007	0	615'	K.R.E.D	220 FROM (N)(S) 2420 FROM (E)W	AD-1	Belton Unit	
4 1/2" casing cemented to surface	2/8	12/08/2008	-	661'	K.R.E.D	3540 FROM (N) SEC LINE RW-19 1925 FROM (E) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	RW-19	Belton Unit	
4 1/2" casing cemented to surface	V/A	12/02/2008	-	660'	K.R.E.D	RW-16 SEC. 16 T. 46 N.R. 33W	RW-16	Belton Unit	
4 1/2" casing cemented to surface	4/2	11/26/2008	-	660'	K.R.E.D	FROM (N) SEC LINE RW-15 26 FROM (B) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	RW-15	Belton Unit	
4 1/2" casing cemented to surface	02/09/2004	02/06/2004	-	697'	K.R.E.D	RW-13 16 T. 46 N.R. 33W	RW-13	Belton Unit	
4 1/2" casing cemented to surface	02/06/2004	02/04/2004	-	652'	K.R.E.D	RW-11 8363 FROM (E) (0) SEC LINE SEC. 16 T. 46 N.R. 33W	RW-11	Belton Unit	
4 1/2" casing cemented to surface	02/03/2004	02/02/2004	_	678'	K.R.E.D.	RW-10 FROM (E) SEC LINE RW-10 FROM (E) SEC LINE SEC. 16 T. 46 N.R. 33W	RW-10	Belton Unit	
CONSTRUCTION	DATE	DATE SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE	
		HOILI GUOI.	" Guille	upsullace	casing, and s	completion of information, detailing the cement, casing, and subsurface casing information.	informa	completion of	

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				m	FROM (N) SEC LINE		
	Plugged 14	665' Plu	K.R.E.D		621 FROM (N) SEC LINE 478 FROM (E) SEC LINE SEC. 9 T.46 N.R. 33V	AD-11	Belton Unit
05/25/1987 07/21/1987 2 3/8" tubing 3/4" rods and insert pump	0 05/2	659'	K.R.E.D 6	<	662 FROM (N.S.) SEC LINE 47.29 FROM (E) (M.S. EC LINE SEC. 9 T. 46 N.R. 33W	AD-10	Belton Unit
08/25/1987 U Squeezed cement into formation to surface on 04/04/2012	Plugged 08/2	662' Plu	K.R.E.D 6	<	3835 FROM (E) (SEC. 9 T. 46	AD-9	Belton Unit
05/14/1999 05/27/1999 2 3/8" tubing 3/4" rods and insert pump	O 05/14	622'	K.R.E.D 6	<	630 FROM (N) SEC LINE 3401 FROM (E) W SEC LINE SEC. 9 T. 46 N.R. 33W	AD-8	Belton Unit
12/12/2007 12/14/2007 2 3/8" tubing 3/4" rods and insert pump	0 12/12	630'	K.R.E.D 6:	<	2981 FROM (N(S) SEC LINE 2981 FROM (EX) SEC LINE SEC. 9 T. 46 N.R. 33W	AD-7	Belton Unit
01/31/2008 02/19/2008 2 3/8" tubing 3/4" rods and insert pump	0 01/31	708'	K.R.E.D 70	<	5150 FROM (N)SSEC LINE 5150 FROM (E) (W) SEC LINE SEC. 9 T. 46 N.R. 33W	AD-6	Belton Unit
06/21/1987 06/25/1987 2 3/8" tubing 3/4" rods and insert pump		679' 0	K.R.E.D 67	<	220 FROM (N) SEC LINE 4716 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	AD-5	Belton Unit
07/14/1987 07/16/1987 2 3/8" tubing 3/4" rods and insert pump		66'	E.D. 666'	K.R.E.D	220_ FROM (N) SEC LINE 1255 FROM (E) SEC LINE SEC. 9 T. 46 N.R. 33W	4	Belton Unit
DATE DATE CONSTRUCTION CONSTRUCTION	PE SPUD	PTH TYPE	VER DEPTH	OWNER	LEASE NO. LOCATION OWNER DEPTH TYPE SPUDDED	WELL NO.	LEASE

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completion of information, detailing the cement, casing, and subsurface casing information.

completion		completion of initialities, detailing the certicity	ouding, and			2147	DATE	
LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	SPUDDED	COMPLETED	CONSTRUCTION
Belton Unit	AD-13	AD-13 2472 FROM (N) SEC LINE	K.R.E.D.	700'	Plugged	12/21/2007	て/ア	Cemented from bottom to top on 12/27/2007
Belton Unit	AD-14	SEC. 9 T. 46 N.R. 33W IDG1 FROM (N) SEC LINE AD-14 3405 FROM (E) SEC LINE	K.R.E.D	609'	0	04/21/1999	05/13/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-15		K.R.E.D	617'	0	11/13/1989	11/14/1989	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-16	AD-16 AD-16 SEC. 9 T. 46 N.R. 33W	K.R.E.D	666'	Plugged	07/23/1987	17891-0 U-1987	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/04/2012
Belton Unit	AD-17	RO	K.R.E.D	647'	0	2	C	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-18	300 FROM (N) (S	K.R.E.D	676.5'	0	01/02/2008	02/26/2008	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-21	\$35 FROM (N)(5) \$300 FROM (E)(W) SEC. 9 T. 46	K.R.E.D	656'	0	09/11/2003	09/12/2003	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-22	1539 FRC 4212 FRC	K.R.E.D	650'	0	06/13/1999	06/18/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Belton Unit	AD-2	FROM (NO) FROM (E) T. 46	K.R.E.D	644'	0	09/09/2003	09/11/2003	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump

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MELL LOCATION OWNER DEPTH TYPE SPÜDÜED COMPLÈTED	4 1/2" casing cemented to surface	04/16/2008	01/04/2008	-	674.1'	K.R.E.D	1300 FROM (N) SEC LINE 7 530 FROM (B) (W) SEC LINE SEC. 9 T. 46 N.R. 33W	ADI-27	Belton Unit
WELL LOCATION OWNER DEPTH TYPE SPÜDED COMPLETED AD-24 300	4 1/2" casing cemented to surface	09/19/2003	09/17/2003	-	650.5'	K.R.E.D	HAS FROM	ADI-26	Belton Unit
MO. CATION OWNER DEPTH TYPE SPUDDED COMPLETED	4 1/2" casing cemented to surface	09/15/2003	09/12/2003	_	651.5'	K.R.E.D	FROM (B) SEC LINE	ADI-25	Belton Unit
MOL LOCATION OWNER DEPTH TYPE SPUDDED COMPLETED	4 1/2" casing cemented to surface	09/17/2003	09/16/2003	_	662'	K.R.E.D	362 FROM (R)(M) SEC LINE 3(02) FROM (E)(M) SEC LINE SEC. 9 T. 46 N.R. 33W	ADI-24	Belton Unit
CALD FROM (N) SEC LINE AD-24 300 FROM (H) (W) SEC LINE AD-24 300 FROM (H) (W) SEC LINE K.R.E.D. 672.5 O 12/27/2007 02/06/2008	4 1/2" casing cemented to surface	10/08/2003	10/07/2003	_	654.5	K.R.E.D	155 FROM (NICE)	ADI-19	Belton Unit
CALD FROM (N) SEC LINE AD-24 300 FROM (E) (W) SEC LINE K.R.E.D. 672.5 O 12/27/2007 02/06/2008	4 1/2" casing cemented to surface	10/10/2003	10/09/2003	_	651.5'	K.R.E.D	1757 FROM (N) (S) (N) (S) (N) (S) (N) (S) (N) (N) (N) (N) (N) (N) (N) (N) (N) (N	ADI-18	Belton Unit
MO. CATION OWNER DEPTH TYPE SPUDDED COMPLETED	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	07/07/1999	06/18/1999	0	625'	K.R.E.D	1077 FROM (N) (S 11677 FROM (E) (U SEC. 9 T. 46	AD-29	Belton Unit
CATION OWNER DEPTH TYPE SPUDDED COMPLETED	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump	07/14/1999	07/08/1999	0	629'	K.R.E.D	11 FROM (N/S) 1115 FROM (E)(V) SEC. 9 T. 46		Belton Unit
NO. LOCATION OWNER DEPTH TYPE SPUDDED COMPLETED	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump		12/27/2007	0	672.5	K.R.E.D.	300 FROM (H)(S) SEC LINE 300 FROM (H)(W) SEC LINE SEC. 9 T. 46 N.R. 33W		Belton Unit
DATE	CONSTRUCTION	DATE	DATE SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE

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completion of information, detailing the cement, casing, and subsurface casing information. Belton Unit ADI-41 HOD9 FROM (E) SEC LINE OH-2 OH-1 WELL OH-3 0H-6 OH-4 OH-5 0H-8 OH-7 SEC. 16 T. 46 N.R. 33W (931 FROM (NS) SEC LINE 3 SLIDS FROM (E) (10) SEC LINE SUS FROM (E) SEC LINE PHOPPROM (E) SEC LINE 7316 FROM (B)(S) SEC LINE FROM (N(S) SEC LINE SEC. 9 T. 46 N.R. 33V 3915 FROM (WS) SEC LINE FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W STI 6-ROM (E) SEC LINE 5124 FROM (E) MSEC LINE 753 FROM (N)(S) SEC LINE SEC. 16 T. 46 N.R. 33W 919 SEC. 16 SEC. 16 T. 46 N.R. 33W SEC. 16 FROM (N(S) SEC LINE FROM (N) SEC LINE FROM (N)(S) SEC LINE FROM (S) SEC LINE LOCATION T. 46 N.R. 33W 1.46 T. 46 N.R. 33W N.R. 33W N.R. 33W K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D K.R.E.D OWNER K.R.E.D K.R.E.D 600' est 600 600' est 600' est 600' est 600' est 600' est 600' est DEPTH 600 est est Plugged Plugged Plugged TYPE 0 0 0 0 0 SPUDDED < DATE 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump 4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump Squeezed cement into formation to surface Squeezed cement into formation to surface Squeezed cement into formation to surface 1/2" casing cemented to surface CONSTRUCTION

MO 780-1136 (02-11)

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completion of	Informa	completion of information, detailing the certient, casing, and succession	casilly, all a	about ac	TVDE	DATE	DATE	CONSTRUCTION
LEASE	NO.	LOCATION	OWNER	DEPIH	ITPE	SPUDDED	COMPLETED	
Belton Unit	OH-9	604 FROM (N) SEC LINE	K.R.E.D.	600' est	Plugged	<u>_</u>	V	Squeezed cement into formation to surface
Belton Unit	UK-1	$\leq \infty$	K.R.E.D	C	Plugged	C	V	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012
Belton Unit	UK-2	· > 10 1	K.R.E.D	C	Plugged	۷	C	4 1/2" casing cemented to surface Squeezed cement into formation to surface on 04/17/2012
Belton Unit	UK-3	FROM (N)(E) BEC LINE FROM (E)(N) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	С	0	C	C	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Clark-Berry	СВ-1	FROM (E) (6) BEC LINE (F) SEC. 16 1.46 N.R.33W	K.R.E.D	625'	0	03/22/1999	<	2 7/8" with 1" tubing and insert pump
Clark-Berry	CB-2	3774 FROM (B) (S) SEC LINE 3016 FROM (E) (M) SEC LINE SEC. 16 T.46 N.R. 33W	K.R.E.D	625'	0	C	<	2 7/8" with 1" tubing and insert pump
Clark-Berry	CB-3	SEC. 16 T. 46 N.R. 33W	K.R.E.D	625'	0	03/25/1999	03/30/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Clark-Berry	CB-4	34724 FR SEC. 16	K.R.E.D	619'	0	03/30/1999	04/02/1999	4 1/2" casing cemented to surface 2 3/8" tubing 3/4" rods and insert pump
Clark-Berry	CBI-1		K.R.E.D	629'	-	03/22/1999	03/25/1999	4 1/2" casing cemented to surface

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																								Clark-Berry	LEASE
																								CBI-2	WELL NO.
SECTN.R	FROM (E)(W) SEC LINE	SEC. T. N.R.	FROM (E)(W) SEC LINE	FROM (N)(S) S	SEC. T. N.R.	FROM (E)(W) SEC LINE	FR	SEC. T. N.R.	FROM (E)(W) SEC LINE	FROM (N)(S) SEC LINE	SECTN.R	FROM (E)(W) SEC LINE	FROM (N)(S) SEC LINE	SECTN.R	FROM (E)(W) SEC LINE	FROM (N)(S) SEC LINE	SECTN.R	FROM (E)(W) SEC LINE	FROM (N)(S) SEC LINE	SECTN.R	FROM (E)(W) SEC LINE	1	SEC. 16 T. 46 N.R. 33W	TROM (N)(S) SEC LINE	LEASE WELL LOCATION
																								K.R.E.D.	OWNER
																								634'	DEPTH
																								_	TYPE
																								04/02/1999	SPUDDED
																								04/07/1999	COMPLETED
																								4 1/2" casing cemented to surface	CONSTRUCTION

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of	WELL	completion of information, detailing the cement, casing, and subsurface casing information. LEASE WELL LOCATION OWNER DEPTH TYPE SPUDDED	casing, and s	DEPTH DEPTH	TYPE	DATE SPUDDED	DATE	CONSTRUCTION
Belton Unit	R-26	5100 FROM (N) SEC LINE	K.R.E.D	643'	Plugged	03/08/2012	Not	Set 21 feet of 8 5/8" surface pipe Squeezed cement from 643' to surface to plug well on 04/17/2012
Belton Unit	R-27	~ ~	K.R.E.D	700'	0	04/06/2012		685' of 2 7/8" casing cemented to surface
Belton Unit	R-28	38 H FROM (E)M) SEC LINE	K.R.E.D	681'	0	04/10/2012	-	656' of 2 7/8" casing cemented to surface
Belton Unit	R-29	LOTHOFROM (F)(N) SEC LINE LOTHOFROM (F)(N) SEC LINE SEC 16 T 46 N.R. 33W	K.R.E.D	750'	0	03/24/2012	05/10/2012	740' of 4 1/2" casing cemented to surface
Belton Unit	R-30	TAC J-ROM (N) SEC LINE 1 H FROM (B) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D.	750'	0	03/23/2012	04/30/2012	697' of 4 1/2" casing cemented to surface
Belton Unit	R-31	FROM (N) (D) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D	750'	0	03/27/2012	04/27/2012	740' of 4 1/2" casing cemented to surface
Belton Unit	R-32	4894 FROM (N) (S) SEC LINE 240 FROM (E) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D.	750'	0	03/14/2012	05/25/2012	743' of 4 1/2" casing cemented to surface
Belton Unit	R-33	H924 FROM (N) SEC LINE 24 DEROM (D) (W) SEC LINE SEC. 16 T. 46 N.R. 33W	K.R.E.D.	700'	0	03/21/2012	05/10/2012	663' of 4 1/2" casing cemented to surface
Belton Unit	R-36	(4	K.R.E.D	760'	0	04/02/2012	04/30/2012	733.5' of 4 1/2" casing cemented to surface

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

		Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	LEASE
		R-51	R-49	R-48	R-47	R-44	R-43	R-42	R-41 W.	WELL NO.
SEC. T. N.R.	FROM (E)(W) SEC LINE	R-51 2518 FROM (E)W) SEC LINE R-51 7518 FROM (E)W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-49 TFROM (N) SEC LINE R-49 T. 46 N.R. 33W	746 FROM (N) (E) SEC LINE R-48 2587 FROM (E) W) SEC LINE SEC. 16 T. 46 N.R. 33W	2544 FROM (N) SEC LINE 17 2543 FROM (E) W) SEC LINE SEC. 16 1.46 N.R. 33W	3300 FROM (NS)SEC LINE R-44 3570 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-43 3-171 FROM (N)(E) BEC LINE R-43 3-171 FROM (E)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	R-42 3390 FROM (E)W) SEC LINE R-42 SEC. 16 T. 46 N.R. 33W	326 FROM (N)(6)SEC LINE R-41 340 FROM (6)(W) SEC LINE SEC. 16 T. 46 N.R. 33W	LEASE WELL LOCATION OWNER
		K.R.E.D.	K.R.E.D.	K.R.E.D	K.R.E.D.	K.R.E.D	K.R.E.D	K.R.E.D	K.R.E.D	OWNER
		730'	730'	770'	760'	760'	770'	980'	643'	DEPTH
		0	0	0	0	0	0	0	0	TYPE
		06/08/2012	06/30/2012	07/18/2012	05/08/2012	05/11/2012	05/09/2012	06/06/2012	06/12/2012	SPUDDED
		~		Complete	06/01/2012	05/31/2012	05/30/2012	<u> </u>	Not Wh	COMPLETED
		700' of 4 1/2" casing cemented to surface	718' of 2 7/8" casing cemented to surface	-	728' of 4 1/2" casing cemented to surface	727' of 4 1/2" casing cemented to surface	/40" of 4 T/2" casing cememed to surface	687' of 4 1/2" casing cemented to surface	of 4 1/2" casing cemented to surface	CONSTRUCTION

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

						SEC. 16 T. 46 N.R. 33W		
	07/09/2012	05/16/2012	_	720'	K.R.E.D.	RW-390 7 TOFROME W SEC LINE	RW-3	Belton Unit
686' of 2 7/8" casing cemented to surface						5117 FROM (N) SEC LINE		
7	11 Senta.					SEC. 16 T. 46 N.R. 33W		
•	م الم مم الم	07/03/2012	_	730'	K.R.E.D.	RW-38 FROM (EXW) SEC LINE	RW-3	Belton Unit
687' of 2 7/8" casing cemented to surface	29					5130 FROM (N)(DEEC LINE		
						SEC. 16 T. 46 N.R. 33W		
	07/09/2012	05/14/2012	-	720'	K.R.E.D.	RW-37 300 FROM(E)(W) SEC LINE	RW-3	Belton Unit
695' of 2 7/8" casing cemented to surface						SING FROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
	07/17/2012	05/29/2012	_	730'	K.R.E.D.	RW-27 FROM (E)(W) SEC LINE	RW-27	Belton Unit
682' of 2 7/8" casing cemented to surface						1616 FROM (N)(S) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
	07/17/2012	05/23/2012	_	730'	K.R.E.D.		RW-26	Belton Unit
692' of 2 7/8" casing cemented to surface						õ		
						SEC. 16 T. 46 N.R. 33W		
	07/06/2012	05/18/2012	-	750'	K.R.E.D.	RW-25 839 FROM (S)M) SEC LINE	RW-25	Belton Unit
711' of 2 7/8" casing cemented to surface						5119 FROM (N) SEC LINE		
	MAN					SEC. 16 T. 46 N.R. 33W		
	- Mala	05/30/2012	-	730'	K.R.E.D.	FROM (EXW) SEC LINE	RW-24	Belton Unit
565' of 2 7/8" casing cemented to surface	20+					(0)		
						SEC. 16 T. 46 N.R. 33W		
	07/06/2012	05/22/2012	-	730'	K.R.E.D.	1433 FROM (E)(W) SEC LINE	RW-23	Belton Unit
691' of 2 7/8" casing cemented to surface						ROM (N)(S)		
	Mahin					SEC. 16 T. 46 N.R. 33W		
	うってす	06/01/2012	-	730'	K.R.E.D.	RW-22 1087 FROM (E)W) SEC LINE	RW-22	Belton Unit
696' of 2 7/8" casing cemented to surface	こらす					HHOSEROM (N)(6) SEC LINE		
CONSTRUCTION	COMPLETED	SPUDDED	TYPE	DEPTH	OWNER	LOCATION	WELL NO.	LEASE
	2		0	20000	casilly, and	completion of information, detailing the centern, casing, and cases.	IIIOIIII	completion of

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

		7				SEC. 16 T. 46 N.R. 33W		
,	(amplet				7.1.1.0.	N-506 1		Belton Unit
009 OF \$ 110 realing control rock to contract		06/30/2012	-	730'	KBED	FROM (D)(W) SEC LINE) =
650' of 2 7/8" casing comented to surface	2)+					~ II		
						SEC. 16 T. 46 N.R. 33W		
	07/17/2012	06/13/2012	_	730'	K.R.E.D.	RW-490-11 FROM (5)(W) SEC LINE		Belton Unit
675' of 2 7/8" casing cemented to surface						FROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
	4	07/13/2012	_	730'	K.R.E.D.	RW-48 TAS FROM (M) SEC LINE		Belton Unit
681' of 2 7/8" casing cemented to surface	`					4748 FROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
		07/13/2012	-	730'	K.R.E.D.	RW-47 2-13 FROM (E)(W) SEC LINE		Belton Unit
689' of 2 7/8" casing cemented to surface						FROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
		07/13/2012	_	730'	K.R.E.D.	RW-46 3184 FROM (SW) SEC LINE		Belton Unit
687' of 2 7/8" casing cemented to surface						HZUSFROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
		07/11/2012	-	730'	K.R.E.D.	RW-45	7010	Belton Unit
684' of 2 7/8" casing cemented to surface						FROM (N) SEC LINE		
	Carabita					SEC. 16 T. 46 N.R. 33W		
	2011	06/28/2012	-	730'	K.R.E.D.	RW-443185 FROM (E)W) SEC LINE		Belton Unit
690' of 2 7/8" casing cemented to surface	207					FROM (N) SEC LINE		
						SEC. 16 T. 46 N.R. 33W		
	07/17/2012	06/14/2012	-	700'	K.R.E.D.	RW-43 5135 FROM (B)(W) SEC LINE		Belton Unit
672' of 2 7/8" casing cemented to surface						PROM (N) (DSEC LINE		
	amples	C				SEC. 16 T. 46 N.R. 33W		
	100	07/03/2012	_	730'	K.R.E.D.	RW-48 THOSFROM (E)W) SEC LINE		Belton Unit
687' of 2 7/8" casing cemented to surface	3					5105 FROM (N) SEC LINE		
CONSTRUCTION	COMPLETED	SPUDDED	TYPE	DEPTH	OWNER	ELL LOCATION	WELL NO.	LEASE
	1		9	20001100	casily, and a	completion of illionidation, detailing the centerit, easing, and eases.	01 110	completion

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	Belton Unit	LEASE
AD-33	AD-32	AD-31	AD-27	AD-26	AD-20	AD16-2	AD11-2	AD 9-2	WELL NO.
		AD-31 2342 FROM (NO) SEC LINE AD-31 2342 FROM (B)(W) SEC LINE SEC. 9 T. 46 N.R. 33W		1965 FROM (N)(5) SEC LINE 1960 FROM (B)(M) SEC LINE SEC. 9 T. 46 N.R. 33W	SAUFROM (N) SEC LINE 1891 FROM (B) (M) SEC LINE SEC. 9 T. 46 N.R. 33W	AD16-2 D&L FROM (N)(S) SEC LINE SEC. 9T. 46 N.R. 33W	AD11-2 FROM (D)(W) SEC LINE AD11-2 FROM (D)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	AD 9-2 SND FROM (P)(M) SEC LINE SEC. 9 T. 46 N.R. 33W	LEASE WELL LOCATION OWNER DEPTH
K.R.E.D.	K.R.E.D.	K.R.E.D.	K.R.E.D.	K.R.E.D	K.R.E.D	K.R.E.D.	K.R.E.D.	K.R.E.D.	OWNER
760'	760'	701'	760'	770'	760'	760'	750'	760'	DEPTH
0	0	0	0	0	0	0	0	0	TYPE
04/03/2012	04/06/2012	04/12/2012	03/30/2012	04/05/2012	03/29/2012	03/28/2012	03/12/2012	03/30/2012	DATE SPUDDED
07/04/2012	06/28/2012	Complete	06/13/2012	06/13/2012	06/11/2012	04/27/2012	04/27/2012	05/07/2012	DATE COMPLETED
741' of 4 1/2" casing cemented to surface	745' of 4 1/2" casing cemented to surface	688' of 2 7/8" casing cemented to surface	741' of 4 1/2" casing cemented to surface	745' of 4 1/2" casing cemented to surface	740' of 4 1/2" casing cemented to surface	739' of 4 1/2" casing cemented to surface	737' of 4 1/2" casing cemented to surface	741' of 4 1/2" casing cemented to surface	CONSTRUCTION

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or

completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	SPUDDED	DATE	CONSTRUCTION
		FROM (N) SEC LINE					ひの十	713' of 4 1/2" casing cemented to surface
Belton Unit	AD 3-1	AD 3-2 FROM (J(W) SEC LINE	K.R.E.D.	770'	0	06/15/2012	مامار و	
		SEC. 9 T. 46 N.R. 33W					Conduct	
		256 FROM (N) SEC LINE						724' of 4 1/2" casing comented to surface
Belton Unit	AD 4-2	AD 4-2 LINE FROM (EXW) SEC LINE	K.R.E.D.	770'	0	06/22/2012		TET OIT ILE CADIII & COLLICITION OF CALLEGO
		SEC. 9 T. 46 N.R. 33W						
		146 FROM (N) SEC LINE						721' of 4 1/2" casing gemented to surface
Belton Unit	AD 5-2	FROM (S(W) SEC LINE	K.R.E.D.	770'	0	06/20/2012		121 OLD IT COSING COLLIGINGS IN SALIGOOD
		SEC. 9 T. 46 N.R. 33W					4	
		1435 FROM (N)(DEC LINE						686' of 4 1/2" casing cemented to surface
Belton Unit	AD-34	AD-34 PROM (1)(W) SEC LINE	K.R.E.D	700'	0	05/04/2012	07/09/2012	G
		SEC. 9 T. 46 N.R. 33W						
							101	686' of 2 7/8" casing cemented to surface
Belton Unit	ADI-42	2200 + 46 22 22 20 20 20 20 20 20 20 20 20 20 20	7. R. H. U	/30	=	21.02/61/70	(amplet	
		EBOW (NIXE) SEC LINE					9	
		FROM (E)(W) SEC LINE						
		FROM (N)(S) SEC LINE						
		FROM (E)(W) SEC LINE						
		SEC						
		FROM (N)(S) SEC LINE		rare				
		FROM (E)(W) SEC LINE						
		SEC. T. N.R.						
		FROM (N)(S) SEC LINE						
		FROM (E)(W) SEC LINE						
		SEC. T. N.R.						

AFFIDAVIT OF PUBLICATION

(Space above for recording information)

LLC 9393 W 17 St., Ste. 500, Overland Park, KS. drilled to an appointment depth of 650 feet.

Shillerin

erisas Resource Exploration & Develope

STATE OF MISSOURI COUNTY OF CASS

I, Janis Anslinger, being duly sworn according that I am the Classified Ad Manager of the Cass Co Missourian, a weekly newspaper of general cil County of Cass, State of Missouri, where newspaper has been admitted to the Post Office class matter in the City of Harrisonville, Misse publication; which newspaper has been published consecutively for a period of three years and bonafide subscribers, voluntarily engaged as s paid or agreed to pay a stated price for a subdefinite period of time, and that such newspaper. with the provisions of Section 493.050, Revis-Missouri 2000, and Section 59.310, Revised Missouri 2000. The affixed notice appeared in said the following consecutive issues: June 2012

14 Insertion: Vol.	100 NO 21	<u>~~</u>	day of
24 Insertion, Vol.	No		_day of
34 Insertion: Vol.	No		_day of
4: Insertion: Vol	No		day of

66210 has applied for 32 injection well permits to be drilled to an automate depth of Salton for will be injected into the Squirrel Sandstone formation for) Enhanced Oil Re anw 71 5,095' from 5 line/1,867' from Eline, Section 16, Touchio 46N, Range 33W eRW-72 3.851 from 5 line/3,199 from E line, Section 16, Evriship 46N, Range 33W eRW-73 3,842 from 5 line/3,195 from E line, Section 16, Evriship 46N, Range 33W 8RW-73 3,842' from S line/3,195' from E line, Section 16, wmship 46N, Range 33W 8RW-74 3,856' from S line/2,765' from E line, Section 16, wership 46N, Range, 33W 8RW-75 3,847' from S line/3,198' from E line, Section 16, wership 46N, Range 33W 8RW-76 3,478' from S line/3,198' from E line, Section 16, ownship 46N, Range 33W 8RW-78 3,473' from S line/3,190' from E line, Section 16, ownship 46N, Range 33W 8RW-79 3,468' from S line/2,761' from E line, Section 16, ownship 46N, Range 33W 8RW-81 3,106' from S line/3,182' from E line, Section 16, ownship 46N, Range 33W 8RW-81 3,106' from S line/3,76' from E line, Section 16, ownship 46N, Range 33W 8RW-83 3,106' from S line/2,765' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,765' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E line, Section 16 ownship 46N, Range 33W 8RW-83 3,106' from S line/2,776' from E BRW-82 3,116 from 5 line/2,785 from 6 line, Section 16 ownship 46N, Range 33W sRW-83 3,107 from 5 line/2,107 from 6 line, Section 16 ownship 46N, Range 33W sRDI-2 2,625 from 5 line/2,105 from 6 line, Section 9 ownship 46N, Range 33W sRDI-2 2,610 from 5 line/1,055 from 6 line, Section 9 ownship 46N, Range 33W sRDI-2 2,610 from 5 line/1,692 from 6 line, Section 9 ownship 46N, Range 33W sRDI-4 2,628 from 5 line/1,275 from 6 line, Section 9 ownship 46N, Range 33W sRDI-4 2,628 from 5 line/1,275 from 6 line, Section 9 ownship 46N, Range 33W sRDI-4 2,627 from 5 line/1,275 from 6 line, Section 9 ownship 46N, Range 33W sRDI-9 2,183 from 5 line/1,275 from 6 line, Section 9 ownship 46N, Range 33W sRDI-9 2,187 from 5 line/1,685 from 6 line, Section 9 ownship 46N, Range 33W sRDI-10 2,192 from 5 line/1,695 from 6 line, Section 7 lownship 46N, Range 33W sRDI-10 2,192 from 5 line/1,695 from 6 line, Section 7 lownship 46N, Range 33W sRDI-11 2,210 from 5 line/1,285 from 6 line, Section 7 lownship 46N, Range 33W sRDI-12 1,197 from 5 line/1,285 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,719 from 5 line/1,210 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,726 from 5 line/1,207 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,756 from 5 line/1,095 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,756 from 5 line/1,095 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,756 from 5 line/1,095 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,756 from 5 line/1,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,759 from 5 line/2,007 from 6 line, Section 9 lownship 46N, Range 33W sRDI-13 1,

Written comments or requests for additional information regarding such walls should be directed within fifteen (15) days of this notice to the address below.

State Geologist Missouri Oll & Gas Council P.O. Box 250 Rolls, MO 65401

Subscribed and sworn to before me on this 29 June 2012

52 Insertion: Vol

Jamis Anslinger, Classified Ad Manage

JULIE M. HICKS Notary Public, Notary Seal State of Missouri Cass County Commission # 09727108 My Commission Expires June 12, 2013

MISSOURI Mechanical Integrity Test

RECEIVED

Test Date: 2/1/2013	2/1/2013 FEB 2 2							
Address: 9393 W. Overland Contact: Brad Kra	Kansas Resources Exploration & Development, LLC Gas Co 9393 W. 110th St. Ste. 500 Overland Park, Kansas 66210 Brad Kramer 913-669-2253							
Lease: Belton U County: Cass		Well No.: _ Permit No.: _						
	TEST	INFORMAT	ION					
Pressure X	Radioactive	Tracer Survey		Temperature Su	rvey			
	Run #1	Run #2	Run #3	Run #4				
Start Time:	9:20							
End Time:	9:50							
Length of Test:	30 min	1 1 1 1 1						
Initial Pressure (PSI):	550 #							
Ending Pressure (PSI):	550 #							
Pressure Change:	0 #							
3					_			
Fluid Used For Test (water	, nitrogen, CO	2, etc.):	Air					
Perforations: Well 1	Not Perfec	Yet						
Comments:	X .433 =							
Pressured Casino	up to 55	50						
The bottom of the tested zo. In signing the form below, integrity on the test date sh Signature Operator, Contact	it is certified the own above.	nat the above ind	licated well w	depth of 693 as tested for med	feet. chanical			
Operator, Contac	t reison of Appi	loved Agent		Title				
FOR INTERNAL USE ONLY								
Results were: Satisfactory	➤ Not Satisfact	ory	Computer Upo	late: 🔀				
State Agent: Sover	_ Witnessed:	Yes No_	~					
	!! FI	LE WITH PERM	IIT!!					